

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE  
(Rev. 2-92) PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.: 8976.80  
SERIAL NO.: 09/018,584  
APPLICANT: James W. Schumm, et al.  
FILING DATE: February 4, 1998  
GROUP: 1635

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>L</i>	AA	5,686,272	11/11/97	Marshall et al.	435	91.2	
<i>L</i>	AB	5,599,666	02/04/97	Schumm et al.	435	6	
<i>L</i>	AC	5,582,979	12/10/96	Weber	435	6	
<i>L</i>	AD	5,413,908	05/09/95	Jeffreys	435	6	
<i>L</i>	AE	5,411,859	05/02/95	White et al.	435	6	
<i>L</i>	AF	5,364,759	11/15/94	Caskey et al.	435	6	
<i>L</i>	AG	5,175,082	12/29/92	Jeffreys	435	6	
<i>L</i>	AH	5,075,217	12/24/91	Weber	435	6	
<i>L</i>	AI	4,963,663	10/16/90	White et al.	536	24.31	
<i>L</i>	AJ	4,683,202	07/28/87	Mullis	435	91.2	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
<i>L</i>	AK	DE3834636C2	18.04.80	Germany	—	—	✓

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>L</i>	AL	Adamson, D., et al. "A Collection of Ordered Tetranucleotide-Repeat Markers from the Human Genome," (1995) <i>Am. J. Hum. Genet.</i> 57: 619-628
<i>L</i>	AM	Edwards et al. "DNA Typing and Genetic Mapping with Trimeric and Tetrameric Tandem Repeats," (1991) <i>Am. J. Hum. Genet.</i> 49: 746-756
<i>L</i>	AN	Nakamura, Y., et al. "Variable Number of Tandem Repeat (VNTR) Markers for Human Gene Mapping," (1987) <i>Science</i> 235: 1616-1622
<i>L</i>	AO	Jeffreys, A. J., et al. "Hypervariable 'minisatellite' regions in human DNA," (1985) <i>Nature</i> 314: 67-73
<i>L</i>	AP	Weber, J. L., et al. "Abundant Class of Human DNA Polymorphisms Which Can Be Typed Using the Polymerase Chain Reaction," (1989) <i>Am. J. Hum. Genet.</i> 44: 388-396
<i>L</i>	AQ	Edwards, A., et al. "Genetic Variation at Five Trimeric and Tetrameric Tandem Repeat Loci in Four Human Population Groups," (1992) <i>Genomics</i> 12: 241-253
<i>L</i>	AR	Hammond, H. A., et al. "Evaluation of 13 Short Tandem Repeat Loci for Use in Personal Identification Applications," (1994) <i>Am. J. Hum. Genet.</i> 55: 175-189
<i>L</i>	AS	Walker, G. T., et al. "Isothermal <i>in vitro</i> amplification of DNA by a restriction enzyme/DNA polymerase system," (1992) <i>Proc. Natl. Acad. Sci., U.S.A.</i> 89: 392-396

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AT	Frégeau, C. J., et al. "DNA Typing with Fluorescently Tagged Short Tandem Repeats: A Sensitive and Accurate Approach to Human Identification," (1993) <i>BioTechniques</i> , Vol. 15, No. 1, pp. 100-119
AU	Schumm, J. W., et al., "Development of Nonisotopic Multiplex Amplification Sets for Analysis of Polymorphic STR Loci," (1993) <i>Fourth International Symposium on Human Identification</i> , pp. 177-187
AV	Schlötterer, C., et al., "Slippage synthesis of simple sequence DNA," (1992) <i>Nucleic Acids Research</i> , Vol. 20, No. 2, pp. 211-215
AW	Levinson, G., et al., "Slipped-Strand Mispairing: A Major Mechanism for DNA Sequence Evolution," (1987) <i>Mol. Biol. Evol.</i> 4(3):203-221
AX	Armour, J., et al., "Isolation of human simple repeat loci by hybridization selection," (1994) <i>Human Molecular Genetics</i> , Vol. 3, No. 4, pp. 599-605
AY	Comings, D. E., et al., "Sequence of Human Tryptophan 2,3-Dioxygenase (TDO2): Presence of a Glucocorticoid Response-like Element Composed of a GTT Repeat and an Intronic CCCCT Repeat," (1995), <i>Genomics</i> 29, pp. 390-396
AZ	Chen, H., et al., "A Novel Zinc Finger cDNA with a Polymorphic Pentanucleotide Repeat (ATTTT) <sub>n</sub> Maps on Human Chromosome 19p," (1993) <i>Genomics</i> 15, pp. 621-625
BA	Edwards, M. C., et al., "Pentanucleotide repeat length polymorphism at the human CD4 locus," (1991) <i>Nucleic Acids Research</i> , Vol. 19, No. 17 p. 4791
BB	Jurka, J., et al., "Simple Repetitive DNA Sequences from Primates: Compilation and Analysis," (1995) <i>J. Mol. Evol.</i> , 40:120-126
BC	Tautz, D., "Hypervariability of simple sequences as a general source for polymorphic DNA markers," (1989) <i>Nucleic Acids Research</i> , Vol. 17, No. 16, pp. 6463-6471
BD	Litt, M., et al., "A Hypervariable Microsatellite Revealed by In Vitro Amplification of a Dinucleotide Repeat within the Cardiac Muscle Actin Gene," (1989) <i>Am. J. Hum. Genet.</i> 44:397-401
BE	Southern, E. M., "Detection of Specific Sequences Among DNA Fragments Separated by Gel Electrophoresis," (1975) <i>J. Mol. Biol.</i> 98, pp. 503-517
BF	Schumm, J. W., et al., "Identification of More than 500 RFLP's by Screening Random Genomic Clones," (1988) <i>Am. J. Hum. Genet.</i> 42:143-159
BG	Wyman, A. R., et al., "A highly polymorphic locus in human DNA," (1980) <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 77, No. 11 pp. 6754-6758
BH	Jeffreys, A. J., et al., "Individual-specific 'fingerprints' of human DNA," (1985) <i>Nature</i> , Vol. 316, pp. 76-79
BI	Kasai, K., et al., "Amplification of a Variable Number of Tandem Repeats (VNTR) Locus (pMCT118) by the Polymerase Chain Reaction (PCR) and Its Application to Forensic Science," (1990) <i>Journal of Forensic Sciences</i> , JFSCA, Vol. 35, No. 5, pp. 1196-1200
BJ	Decorte, R., et al., "Rapid Detection of Hypervariable Regions by the Polymerase Chain Reaction Technique," (1990) <i>DNA and Cell Biology</i> , Vol. 9, No. 6, pp. 461-469

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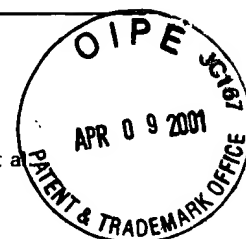
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<i>h</i>	BK	Ponce, M. R., et al., "PCR amplification of long DNA fragments," (1992) <i>Nucleic Acids Research</i> Vol. 20, No. 3, p. 623
<i>h</i>	BL	Kievits, T., et al., "NASBA™ isothermal enzymatic in vitro nucleic acid amplification optimized for the diagnosis of HIV-1 infection," (1991) <i>Journal of Virological Methods</i> 35, 273-286
<i>h</i>	BM	Volloch, V., et al., "Ligation-mediated amplification of RNA from murine erythroid cells reveals a novel class of $\beta$ globin mRNA with an extended 5'-untranslated region," (1994) <i>Nucleic Acids Research</i> Vol. 22, No. 13, pp. 2507-2511
<i>h</i>	BN	Reyes, G. R., et al., "Sequence-independent, single-primer amplification (SISPA) of complex DNA populations," (1991) <i>Molecular and Cellular Probes</i> 5, pp. 473-481
<i>h</i>	BO	Current Protocols in Human Genetics, Chapter 2: Development of Genetic Markers, "Construction of Small-Insert Libraries from Genomic DNA," (1994) pp. 2.0.1-2.7.15
<i>h</i>	BP	Schuler G. D., et al., "A Gene Map of the Human Genome," <i>Science</i> (1996) Vol. 274, pp. 540-546
<i>h</i>	BQ	Maciver, I., Editorial, (1998) <i>Profiles in DNA</i> , Vol. 1, No. 3, pp. cover page, 1-2
<i>h</i>	BR	Tautz, D., et al., "Simple sequences are ubiquitous repetitive components of eukaryotic genomes," (1984) <i>Nucleic Acids Research</i> , Vol. 12, No. 10, pp. 4127-4138
<i>h</i>	BS	Puers, C., et al., "Allelic Ladder Characterization of the Short Tandem Repeat Polymorphism Located in the 5' Flanking Region to the Human Coagulation Factor XIII A Subunit Gene," (1994) <i>Genomics</i> , 23, pp. 260-264
<i>h</i>	BT	Waye, J. S., et al., "Sensitive and Specific Quantification of Human Genomic Deoxyribonucleic Acid (DNA) in Forensic Science Specimens: Casework Examples," (1991) <i>Journal of Forensic Sciences</i> , JFSCA, Vol. 36, No. 4, pp. 1198-1203
<i>h</i>	BU	Borštnik, B., et al. "Tandemly repeated pentanucleotides in DNA sequences of eucaryotes," (1994) <i>Nucleic Acids Research</i> , Vol. 22, No. 16, pp. 3412-3417
<i>h</i>	BV	Altschul, S. F., et al. "Basic Local Alignment Search Tool," (1990) <i>J. Mol. Biol.</i> , 215 pp. 403-410
<i>h</i>	BW	Harada, S., et al., "Polymorphism of pentanucleotide repeats in the 5' flanking region of glutathione S-transferase (GST) $\pi$ gene," (1994) <i>Hum. Genet.</i> 93: 223-224
<i>h</i>	BX	Lander, E. S., et al., "Construction of multilocus genetic linkage maps in humans," (1987) <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 84, pp. 2363-2367
<i>h</i>	BY	Volloch, V., et al., "Identification of negative-strand complements to cytochrome oxidase subunit III RNA in <i>Trypanosoma brucei</i> ," (1991) <i>Proc. Natl. Acad. Sci., USA</i> , Vol. 88, pp. 10671-10675
<i>h</i>	BZ	Weber, J. L., "Informativeness of Human (dC-dA) <sub>n</sub> •(dG-dT) <sub>n</sub> Polymorphisms," (1990) <i>Genomics</i> 7, pp. 524-530
<i>h</i>	CA	Demers, D. B., et al., "Multiplex STR Analysis by Capillary Electrophoresis," (1998) <i>Profiles in DNA</i> , Vol. 1, No. 3, pp. cover page, 1, 3-5
<i>h</i>	CB	Promega Bulletin #TM227, "LIGHTSMITH™ II Luminescence Engineering System for Oligonucleotides," (1995) pp. 1-30

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ATTY. DOCKET NO.: 16026.9180

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APPLICANT: James W. Schumm et al.

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## FOREIGN PATENT DOCUMENTS

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α	CC	Anderson, M. L. M., "Hybridization strategy", in Gene Probe 2: A Practical Approach, Hames et al. (ed.), published 1995 by IRL Press, Oxford, UK, pp. 1-29
λ	CD	Moore, S. S. et al., "The Conservation of Dinucleotide Microsatellites among Mammalian Genomes Allows the Use of Heterologous PCR Primer Pairs in Closely Related Species", <i>Genomics</i> , July 1991, Vol. 10, No. 3, pp. 654-660
α	CE	Weissenbach, J. et al., "A second-generation linkage map of the human genome", <i>Nature</i> , 20 October 1992, Vol. 359, pp. 794-801

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